SUPERSTRUCTURE CONCRETE
QUALITY CONTROL PLAN CHECKLIST

DATE _____

CONTRACT NO. _____

CONTRACTOR _____

SIGNATURE PAGE

[ ] Submitted 15 Days Prior to Concrete Placement Operations
[ ] QCP Signed and Dated by QCP Manager

QUALITY CONTROL PERSONNEL

QCP Manager

[ ] Name
[ ] Qualifications
[ ] Telephone Number
[ ] Duties
[ ] Employer

QCP Site Manager

[ ] Name
[ ] Qualifications
[ ] Telephone Number
[ ] Duties
[ ] Employer
[ ]* Same Person as QCP Manager

Quality Control Technician(s)

[ ] Name
[ ] Qualifications (Certified Concrete Technician)
[ ] Telephone Number
[ ] Duties
[ ] Employer
[ ]* Same Person as QCP Manager
[ ]* Same Person as QCP Site Manager

* Only If Applicable

TESTING FACILITY

[ ] Location
[ ] List of Test Equipment
[ ] Test Methods and Frequency of Calibration/Verification

MATERIALS -- Source, Transportation, Handling, and Storage Procedures

[ ]* Admixtures - type
[ ] Aggregates - size
[ ] Curing Materials
[ ]* Evaporation Retardants
[ ]* Fly Ash - class
[ ]* Ground Granulated Blast Furnace Slag - grade
[ ] Portland Cement - type
[ ] Reinforcing Steel - size and type
[ ] Water - if non-potable, the sampling and testing procedures

PROCESS CONTROL OF AGGREGATES

Gradation

[ ]* Control Band Tolerances on each sieve for aggregates not in accordance with 904.01(g) and 904.02(e)
[ ]* Statement that Control Charts shall be obtained from Certified Aggregate Producer for Production and Load-Out tests of each Aggregate, within 7 days of Concrete Placement Operations
[ ]* Gradation Tests
    [ ] Sample Procedure
    [ ] Sample Reduction Procedure
    [ ] Test Method
    [ ] Testing Frequency (Within 7 days of concrete placement operations)
[ ] Procedure for Determination of Combined Aggregate Gradation

Water Absorption

[ ] Test Methods
[ ] Testing Frequency (Minimum of one test for each aggregate used during concrete placement operations)

SSD Bulk Specific Gravity

[ ] Test Method
[ ] Testing Frequency (Minimum of one test for each aggregate used during concrete placement operations

* Only If Applicable

TRIAL BATCH DEMONSTRATION

[ ] Location
[ ] Type of Equipment
[ ] Procedures

CONCRETE BATCHING

[ ] Description of Plant, including Capacity and Intended Batch Size
[ ] Method and Sequence of Batching
[ ] Initial and Routine Equipment Checks (e.g., mixers, scales, water meters, admixture dispensers, mixing equipment, and agitators, if applicable)
[ ] Material Checks and Frequency of Testing
[ ] Methods of Monitoring Ingredients
[ ] Method of Recording Each Batch

PROCESS CONTROL OF CONCRETE

Slump

[ ] Sampling Procedure
[ ] Test Method
[ ] Testing Frequency (Minimum of one test/sublot; also first truck for each day of production)

Air Content and Unit Weight

[ ] Sampling Procedure
[ ] Test Method
[ ] Testing Frequency (Minimum of one test/sublot, first truck for each day of production, and when there is a change in production, delivery, or replacement)

Water/Cementitious Ratio

[ ] Frequency of Determination (Minimum of one for each day of concrete placement operations)

Compressive Strength

[ ] Sampling Procedure
[ ] Test Method
[ ] Testing Frequency (Minimum of one set of two cylinders at 7 days and one set of two cylinders at 28 days for each sublot)

PROCESS CONTROL OF REINFORCING STEEL

[ ] Procedure for Monitoring Depth of Concrete over Uppermost Bar of Top Mat
[ ] Frequency of Depth Measurements
[ ] Statement that Measurements shall be taken as soon as Concrete is Placed and Struck Off and while still Plastic

RESPONSE TO TEST RESULTS

Water Absorption

[ ] Procedure for Corrective Action when Test Results differ from Design Mix Value by more than 0.5 percent
[ ] Statement that Source shall be Investigated and an Absorption Percent determined

Bulk Specific Gravity (SSD)

[ ] Procedure for Corrective Action when Test Results differ by more than 0.056 for Fine Aggregate or 0.032 for Coarse Aggregate from the Mix Design values
[ ] Statement that source shall be Investigated and the Bulk Specific Gravity (SSD) determined

Unit Weight

[ ] Procedure for Corrective Action when Test Results differ by more than ± 1 lb/ft^3 (16 kg/m^3) from Predicted Value for Air Content Measured (not to exceed unit weight representing w/c of 0.420)

Other Quality Control Tests

[ ] Procedure for Corrective Action
  [ ] Compressive Strength
  [ ] Air Content
  [ ] Slump

CONCRETE HAULING

[ ] Equipment and Methods for Delivery
[ ] Traffic Pattern to the Site of Work

CONCRETE PLACEMENT

[ ] Placing Sequence
[ ] Identification of Placing Equipment
[ ] Description of Pumping Procedures

FINISHING, TEXTURING, AND CURING

[ ] Methods for Finishing, Texturing, and Curing Concrete
[ ] Description and Identification of Equipment

FORMS, FALSEWORK, AND CENTERING

[ ] Procedure for determining when forms, falsework, and centering may be removed
[ ] Frequency of samples for determination of removal (Minimum of two cylinders or two beams)

DOCUMENTATION

[ ] Statement that Aggregate and Mixture Tests, and Depth of Cover of Concrete over Reinforcing Steel Measurements shall be maintained for a Period of Three Years after completion of Contract and that the Location shall be Readily Accessible for review by the Department.